

XXX.—*Additional Notes on the Birds of Formosa.*

By W. R. OGILVIE-GRANT.

(Plates XII. & XIII.)

SINCE the publication in this Journal* of the paper on the birds of Formosa, I have received a small collection from the central mountains of that island formed by Dr. Arnold Moltrecht, Surgeon-in-Chief of the Emigrant Hospital, Vladivostok. During his travels in the island, which lasted for three months and a half, Dr. Moltrecht visited and made collections in the following places:—Koshun District, near South Cape (February); Rantai-San, 7000 ft., Nanto District (March); and Arizan, 7000 ft., Kagi District (April), the two last-named mountains being near Mount Morrison, in Central Formosa.

Dr. Moltrecht was fortunate enough to obtain an adult male example of the wonderful new Pheasant *Calophasis mikado*, together with a young male. An adult female was shot but not secured, being lost in the high grass. He remarks that females of this species are to be met with at a lower elevation than males, and that the adult male which he secured was killed on Arizan at an elevation of 8300 ft. This specimen was apparently sent to the St. Petersburg Museum, as only the immature male was forwarded to the British Museum.

As will be seen by the following list, Dr. Moltrecht's collection includes examples of several of the species first discovered by Mr. Walter Goodfellow on Mount Morrison in 1906. It also contains examples of a Wood-Owl, which appears to be *Syrnium nivicola* Hodgs., but is slightly smaller, and a Flycatcher, *Hemichelidon ferruginea* Hodgs.; neither of these, though found in the Himalaya and N.W. China, was hitherto known to occur in Formosa.

The former paper in 'The Ibis' is referred to throughout as "Grant & La Touche," and the numbers in front of each species are the same as those previously used. One

* "On the Birds of the Island of Formosa," by W. R. Ogilvie-Grant and J. D. D. La Touche, 'Ibis,' 1907, pp. 151-198 & 254-279.

or two recently discovered species, such as the Bullfinch (*Pyrrhula owstoni* Rothsch. & Hartert), though not included in the present collection, have been inserted in their proper places so as to complete the list.

2. *PICA PICA* (Linn.); Grant & La Touche, p. 159.

a. ♀. Rautai-San, Nanto Dist., 18th March.

3. *UROCISSA CERULEA* Gould; Grant & La Touche, p. 159.

a, b. ♂ ♀. Rautai-San, Nanto Dist., 15th March.

5. *GARRULUS TAIVANUS* Gould; Grant & La Touche, p. 160.

a, b. ♂. Rautai-San, Nanto Dist., 6th and 11th March.

6. *ACRIDOTHERES CRISTATELLUS* (Linn.); Grant & La Touche, p. 160.

a. Rautai-San, Nanto Dist., March.

9. *CHAPTIA BRAUNIANA* Swinh.; Grant & La Touche, p. 161.

a, b. Rautai-San, Nanto Dist., 13th and 14th March.

10. *BUCHANGA ATRA* (Herm.); Grant & La Touche, p. 161.

a, b. ♂ et ♀ imm. Rautai-San, Nanto Dist., 11th and 18th March.

12. *ORIOIUS ARDENS* (Swinh.); Grant & La Touche, p. 161.

a. ♂. Rautai-San, Nanto Dist., 11th March.

20. *CARPODACUS INCERTUS* Grant; Grant & La Touche, p. 164.

Carpodacus vinaceus incertus Rothsch., Bull. B. O. C. xxi. p. 9 (1907) [Mt. Arizan].

a. ♂. Arizan, Kagi Dist., 12th April.

This species was described from female examples, the only male procured by Mr. Goodfellow having been an immature bird in brown plumage. Subsequently adult male specimens were obtained for Mr. Rothschild by Mr. Alan Owston's Japanese collectors, and were described in the 'Bulletin of the British Ornithologists' Club,' as quoted above.

20 *a*. *PYRRHULA OWSTONI* Rothsch. & Hart., Bull. B. O. C. xxi. p. 9 (1907).

This very distinct species was discovered on Mt. Arizan by Mr. Owston's Japanese collectors. Though specimens were not included in the present collection, I have mentioned it so as to complete the list of the birds of Formosa.

28. *MOTACILLA LEUCOPSIS* Gould; Grant & La Touche, p. 165.

a, b. ♂ ♀. Rautai-San, Nanto Dist., 18th March.

29. *MOTACILLA OCULARIS* Swinh.; Grant & La Touche, p. 166.

a. ♀. Rautai-San, Nanto Dist., 16th March.

32. *MOTACILLA TAIVANA* Swinh.; Grant & La Touche, p. 166.

a, b. ♂. Rautai-San, Nanto Dist., 16th and 18th March.

33. *ANTHUS MACULATUS* Hodgs.; Grant & La Touche, p. 166.

a. ♀. Rautai-San, Nanto Dist., 18th March.

36. *ZOSTEROPS SIMPLEX* Swinh.; Grant & La Touche, p. 167.

a. ♂. Rautai-San, Nanto Dist., 16th March.

37. *SITTA SINENSIS* Verr.; Grant & La Touche, p. 167.

a. ♂. Rautai-San, Nanto Dist., 10th March.

39. *MACHILOLOPHUS HOLSTI* Seeb.; Grant & La Touche, p. 168.

a. Arizan, Kagi Dist., April.

43. *LANIUS SCHACH* Linn.; Grant & La Touche, p. 170.

a. ♀. Rautai-San, Nanto Dist., 18th March.

63. *TURDUS OBSCURUS* Gmel.; Grant & La Touche, p. 174.

a. ♂. Arizan, Kagi Dist., 14th April.

This species was included among the birds of Formosa on the authority of Swinhoe, and an example referred to this species was procured in Northern Formosa by Mr. La Touche. I am glad to have had the opportunity of examining a Formosan specimen.

64. *TURDUS ALBICEPS* Swinh. ; Grant & La Touche, p. 174.
a. ♂. Rantai-San, Nanto Dist., 13th March.

65. *OREOCINCLA VARIA* (Pall.) ; Grant & La Touche,
p. 174.

a. ♂. Rantai-San, Nanto Dist., 10th March.

71. *IANTHIA JOHNSTONIÆ* Grant ; Grant & La Touche,
p. 175, pl. iv.

a. ♂. Arizan, Kagi Dist., 11th April.

This adult male is perfectly similar to the type figured in
'The Ibis.'

72. *NOTODELA MONTIUM* Swinh. ; Grant & La Touche,
p. 176.

a. ♂. Rantai-San, Nanto Dist., 13th March.

b. ♂. Arizan, Kagi Dist., 4th April.

77. *TROCHALOPTERUM MORRISONIANUM* Grant ; Grant &
La Touche, p. 178.

a. ♂. Arizan, Kagi Dist., 11th April.

78. *POMATORHINUS MUSICUS* Swinh. ; Grant & La Touche,
p. 179.

a. ♂. Rantai-San, Nanto Dist., 14th March.

81. *DRYONASTES PÆCILORHYNCHUS* (Gould) ; Grant &
La Touche, p. 180.

a. ♀. Arizan, Kagi Dist., 17th April.

This specimen, like those sent by Mr. Goodfellow from
Mt. Morrison, has the under tail-coverts pure white.

83. *PROPARUS FORMOSANUS* Grant ; Grant & La Touche,
p. 181.

a. ♂. Arizan, Kagi Dist., 12th April.

This second male example is perfectly similar to the type
specimen procured by Mr. Goodfellow.

86. *MYIOPHONEUS INSULARIS* Gould ; Grant & La Touche,
p. 184.

a. Rantai-San, Nanto Dist.

87. *MALACIAS AURICULARIS* (Swinh.) ; Grant & La Touche,
p. 185.

a. ♂. Arizan, Kagi Dist., 3rd April.

88. *ACTINODURA MORRISONIANA*. (Plate XII. fig. 2.)
Actinodura morrisoniana Grant, Bull. B. O. C. xvi. p. 119 (1906); Grant & La Touche, p. 185.
a, b. ♂ ♀. Arizan, Kagi Dist., 12th April.
 This remarkably distinct species, which is now figured for the first time, was discovered by Mr. Goodfellow.
89. *YUHINA BRUNNEICEPS* Grant ; Grant & La Touche, p. 186.
a, b. ♂ ♀. Arizau, Kagi Dist., 6th and 13th April.
91. *LIOCICHLA STEERI* Swinh.; Grant & La Touche, p. 188.
a-c. ♂ ♀. Arizan, Kagi Dist., 12th and 14th April.
92. *SUTHORA BULOMACHUS* Swinh.; Grant & La Touche, p. 188.
a. ♀. Rautai-San, Nanto Dist., 16th March.
93. *SUTHORA MORRISONIANA*. (Plate XII. fig. 1.)
Suthora morrisoniana Grant, Bull. B. O. C. xvi. p. 188 (1906); Grant & La Touche, p. 188.
 This handsome Crow-Tit, which is now figured for the first time, is only known from a male specimen procured by Mr. Goodfellow on Mt. Morrison. It was not obtained by Dr. A. Moltrecht.
94. *PYCNONOTUS SINENSIS* (Gmel.) ; Grant & La Touche, p. 189.
a, b. ♂ ♀. Rautai-San, Nanto Dist., 14th and 16th March.
96. *HYPSSIPETES NIGERRIMUS* Gould ; Grant & La Touche, p. 189.
a. ♀. Rautai-San, Nanto Dist., 14th March.
99. *PERICROCOTUS GRISEIGULARIS* Gould; Grant & La Touche, p. 190.
a, b. ♂ ♀. Rautai-San, Nanto Dist., 11th and 12th March.
- 101 *a.* *HEMICHELIDON FERRUGINEA* Hodgs.; Oates, Faun. Brit. Ind., Birds, ii. p. 6 (1890).
a. ♂. Arizan, Kagi Dist., 7th April.



H. Grönvold del.

Wesl. Newman imp.

1. SUTHORA MORRISONIANA, ♂.
2. ACTINODURA MORRISONIANA, ♂.

This species is new to the avifauna of Formosa. It inhabits the eastern Himalaya and ranges thence eastwards across China to Sumatra, Borneo, and Palawan.

104. *CYORNIS VIVIDA* Swinh.; Grant & La Touche, p. 191.

a, b. ♂ ♀. Arizan, Kagi Dist., 7th and 14th April.

The sex of specimen *b*, which is marked "♀," is probably incorrect. The specimen has the greater part of the crown dark ultramarine-blue, and many feathers of the lower back and rump tipped with the same colour.

107. *XANTHOPYGIA AFFINIS* Grant; Grant & La Touche, p. 192.

a. ♂. Rautai-San, Nanto Dist., 13th March.

111. *CRYPTOLOPHA FULVIFACIES* (Swinh.); Grant & La Touche, p. 193.

a. ♂. Arizan, Kagi Dist., 17th April.

116. *DENDROCOPUS INSULARIS* (Gould); Grant & La Touche, p. 194.

a. ♂. Arizan, Kagi Dist., 10th April.

120. *CYANOPS NUCHALIS* (Gould); Grant & La Touche, p. 195.

a. ♂. Rautai-San, Nanto Dist.

b. ♀. Arizan, Kagi Dist., 4th April.

123. *CENTROPUS JAVANICUS* Dumont; Grant & La Touche, p. 196.

a. Ad. Rautai-San, Nanto Dist., March.

127. *ALCEDO ISPIDA* Linn.; Grant & La Touche, p. 197.

a, b. ♂. Rautai-San, Nanto Dist., 19th March.

131. *SCOPS GLABRIPES* Swinh.; Grant & La Touche, p. 255.

a. Ad. Arizan, Kagi Dist., April.

134 *a.* *SYRNIUM NIVICOLA* Hodgs.

a. ♂. Rautai-San, Nanto Dist., 9th March.

It is the first time this Wood-Owl has been recorded from Formosa. I have compared the specimen, which is an example in the rufous phase of plumage, with Himalayan

birds. From these it differs only in being very slightly smaller (wing 10·5 inches), and in having fewer (only two or three) whitish-buff spots on the shorter outer scapulars, while the pale markings on the inner webs of the outer primary-quills are indistinct or absent. The differences are, however, very slight and possibly merely individual. *S. nivicola* is known to range from the Himalaya to North-western China.

179. *NYCTICORAX NYCTICORAX* (Linn.); Grant & La Touche, p. 263.

a. ♂. Rautai-San, Nanto Dist., 27th March.

180. *BUTORIDES JAVANICA* (Horsf.); Grant & La Touche, p. 263.

a. Rautai-San, Nanto Dist., March.

237. *PODICIPES PHILIPPENSIS* Bonn.; Grant & La Touche, p. 272.

a. ♀. Rautai-San, Nanto Dist., 19th March.

245. *SPIENOCERCUS SORORIUS* Swinh.; Grant & La Touche, p. 273.

a. ♂. Rautai-San, Nanto Dist., 14th March.

248. *TURTUR CHINENSIS* (Scop.); Grant & La Touche, p. 274.

a. ♂. Rautai-San, Nanto Dist., 14th March.

259. *PHASIANUS FORMOSANUS* Elliot; Grant & La Touche, p. 277.

a. ♂ imm. 13th Feb.

Dr. Moltrecht has forwarded an adult male of this species which is exactly similar to the type-specimen procured by Swinhoe. So far as I am aware, the female has never been sent to England, and the male is apparently difficult to procure.

260. *CALOPHYSIS MIKADO*. (Plate XIII.)

Calophasis mikado Grant, Bull. B. O. C. xvi. p. 277 (1906); Grant & La Touche, p. 277.

Phasianus mikado Rothsch., Bull. B. O. C. xxi. p. 22 (1907).

a. ♂ imm. Arizan, 8300 ft., Kagi Dist., April.

In addition to the immature bird mentioned above,



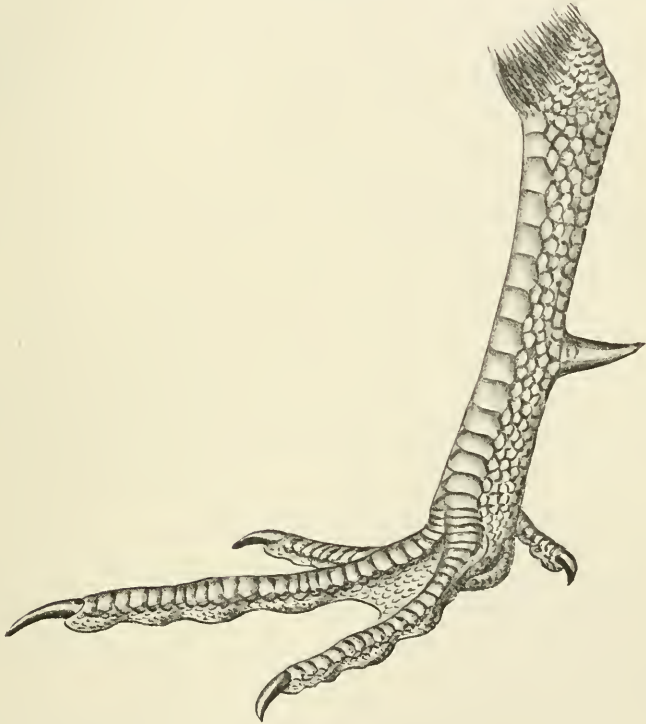
H. Grönvold lith.

West, Newman imp.

CALOPHYSIS MIKADO. ♂, ♀.

Dr. Moltrecht procured an adult male, which has, I believe, been sent to the St. Petersburg Museum. He states in his letter that he also shot an adult female which accompanied the younger male, but, being only winged, was lost in the long impenetrable grass.

Text-fig. 7.

Foot of *Calophasis mikado*.

I take this opportunity of pointing out that in this species the scaling of the tarsus is unlike that of any known Pheasant; for instead of the hinder aspect being covered with scales, as is the case in *Phasianus* and other species of *Calophasis*, it is reticulate, and each of the rather small octagonal scales is elevated, forming a roughened surface (see text-fig. 7). This peculiarity was first observed by

Major H. Jones, to whom the members of the 'Ibis' are indebted for the beautifully executed water-colour drawing of this species (Pl. XIII.), which has been carefully copied by Mr. Grönvold. We have also to thank Major Jones for a drawing of the foot, which is here reproduced (text-fig. 6).

DESCRIPTION OF THE PLATES.

PLATE XII.

Fig. 1. *Suthora morrisoniana*, p. 604. From the typical specimen procured by Mr. Goodfellow.

2. *Actinodura morrisoniana*, p. 604. From Dr. Moltrecht's male specimen.

PLATE XIII.

Calophasis mikado, ♂ et ♀.

Drawn by Major Jones and put on stone by Mr. Grönvold from specimens in Mr. Rothschild's collection.

XXXI.—*The Report on the British Museum for 1907.*

THE Annual Report to Parliament on the British Museum, which has been lately issued, contains a statement of the progress made in the year 1907 in the arrangement and description of the collections and an account of the objects added to them, from which we extract the following particulars, referring to the National Collection of Birds.

Progress has been made with the work in the Gallery; the British Birds in the Pavilion have now been mostly remounted or renewed, and will shortly be completely arranged.

Cases containing the bower of the Gardener Bower-Bird (*Amblyornis subalaris*) and a nesting-group of Buffon's Skua (*Stercorarius parasiticus*) have been added.

The Catalogue of the Eggs, vol. v., has been continued to the end of the *Fringillidæ*, and vol. v. of the 'Hand-list of Birds' is approaching completion.

A considerable number of skeletons has been added to the Avian Osteological series—partly by the incorporation of the Robert Collection, and partly by preparations made from specimens in the spirit collection, preserved for that purpose. In addition much curatorial work has been